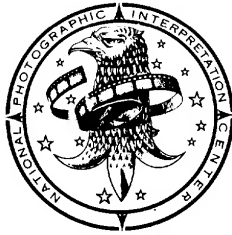


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Basic Imagery Interpretation Report**NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER**

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**BALTA MRBM REAR DEPOT
BERDICHEV IRBM REAR DEPOT
BOBROVSKIY ICBM/IRBM/MRBM REAR DEPOT
GLAZOV ICBM/IRBM/MRBM REAR DEPOT
NOVAYA MEZINOVKA IRBM REAR DEPOT
SUROVATIKHA ICBM/IRBM/MRBM REAR DEPOT
TAMBOV IRBM REAR DEPOT
TOROPETS MISSILE SUPPORT FACILITY**

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DEPLOYED STRATEGIC SSM FACILITIES**USSR****AUGUST 1969**

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INSTALLATION OR ACTIVITY NAME See below					COUNTRY UR	
UTM COORDINATES NA	GEOGRAPHIC COORDINATES See below	CATEGORY See below	BE NUMBER See below	COMIREX NO. See below	NIETB NO. See below	
MAP REFERENCE See below						
LATEST IMAGERY USED		NEGATION DATE (if required) NA				

Installation	Geo Coords	Category	BE Number	COMIREX No	NIETB No
Balta MRBM Rear Depot	47-50-52N 029-53-50E				
Berdichev IRBM Rear Depot	49-56-34N 028-17-59E				
Bobrovskiy ICBM/IRBM/MRBM Rear Depot	56-40-41N 061-04-49E				
Glazov ICBM/IRBM/MRBM Rear Depot	57-51-36N 053-16-35E				
Novaya Mezinovka IRBM Rear Depot	53-30-47N 026-55-25E				
Surovatikha ICBM/IRBM/MRBM Rear Depot	55-43-06N 043-52-32E				
Tambov IRBM Rear Depot	52-27-36N 041-27-50E				
Toropets Missile Support Facility	56-21-39N 031-38-40E				

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Map References

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ACIC. USATC, Series 200, Sheet M0153-25IHL, 4th ed, May 67, scale 1:200,000 (SECRET)

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ABSTRACT

The eight missile support facilities--Balta, Berdichev, Bobrovskiy, Glazov, Novaya Mezinovka, Surovatikha, Tambov, and Toropets--have remained basically unchanged in layout since [] although there has been some increase in the housing facilities since that time. No significant change has been observed in the amount of missile support equipment at each facility, but an increased level of building construction is evident. The recent observation of missiles and missile components at several of the facilities indicates that these facilities provide storage and possible assembly of missiles in addition to maintenance and storage of missile-associated equipment. Analysis of equipment present at these facilities reveals that four of them support MRBM and IRBM systems and three support ICBM as well as MRBM and IRBM systems; the type of system served by the remaining facility has not been determined. A complex rail system for the handling of materials and equipment is observed at each of the facilities.

This report consolidates and updates information on the eight missile support facilities. It includes a description and an annotated photograph of each facility and a table of data on the structures in each facility. Information in the report is current through [] photography of []

INTRODUCTION

The eight missile support facilities are all in the European USSR: four are to the west of Moscow, in or near the belt of MRBM and IRBM sites in the western USSR, and four are east and southeast of Moscow (Figure 1).

Each installation is situated on or adjacent to a major rail line and each is served by good roads. All of the facilities are located in forested areas, and trees left standing in each facility provide some concealment at ground level. There are SAM sites in the vicinity of each of the facilities. As many as five SAM sites are near the Surovatikha facility, and at least 26 SAM sites are within 25 nautical miles (nm) of the eight facilities.

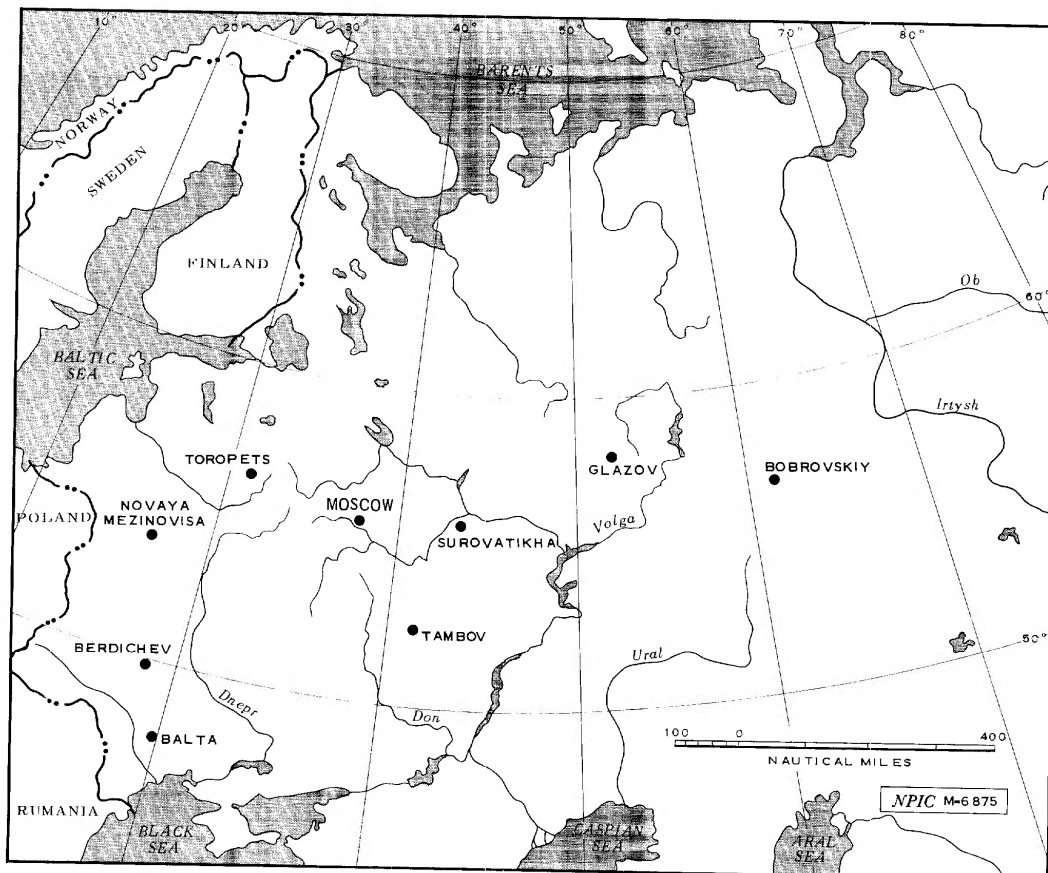


FIGURE 1. LOCATION OF MISSILE SUPPORT FACILITIES, USSR

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The use of sentry dogs for patrols is indicated by the appearance of dog kennels at seven of the facilities.

BASIC DESCRIPTION

Two of the eight missile support facilities, Bobrovskiy and Novaya Mezinovka, were first observed in [] on overhead reconnaissance photography. By [] the other six facilities were observed, and all eight facilities appeared to be functionally complete by []. A number of new buildings have been constructed at the facilities since [] and some buildings are still under construction. At the Tambov facility, new rail lines have been added since [].

Function

Seven of the eight missile support facilities serve MRBM and IRBM systems, and of these three also serve ICBM systems. The type of system served by the remaining facility has not been determined. The presence of MRBM and IRBM equipment has been confirmed at the Balta, Berdichev, Novaya Mezinovka, and Tambov facilities. At the Bobrovskiy, Glazov, and Surovatikha facilities, all east of Moscow, ICBM support equipment has been observed in addition to limited amounts of MRBM- and IRBM-associated equipment. At the Toropets facility, although linear tapered objects, possibly missiles, have been observed on occasion, no missile equipment has been positively identified. However, the layout, type of buildings, and apparent mode of operation at Toropets indicate that it performs the same type of function as the other seven missile support facilities.

The recent observation of missiles and missile components at several of the facilities indicates that the function of the facilities includes the storage and possible assembly of missiles as well as the maintenance and storage of missile-associated equipment. Two probable SS-5 missiles were identified at Tambov in [] a large number of SS-6 components were observed at Glazov in [] and a SAVAGE three-stage missile was observed at Bobrovskiy also in [].

A large number of vehicles and pieces of equipment, including missile transporters, propellant transporters, missile erectors, and prime movers, have been observed in open storage at all the facilities except Toropets. No significant or rapid change in the amount of this equipment has been observed in the past four years, although there was a considerable reduction in the number of support vehicles at Novaya Mezinovka between [] and a reduction in the number of missile transporters occurred at the Tambov facility between [].

The lack of a significant or rapid change in the amount of equipment suggests that it is the function of the facilities to provide more or less permanent storage for missile support equipment. The reported lack of communications activity involving these facilities during Soviet Rocket Forces General Staff Command exercises indicates that the facilities are not in the operational chain of command and therefore are not called upon for quick reaction support to deployed launch complexes.¹ No external communications system has been observed at any of the eight facilities.

Physical Features

All of the missile support facilities have a similar general design, but the rail pattern varies. Each facility has two main areas: a rail-served storage and maintenance area and a housing and support area.

Storage and Maintenance Area

The storage and maintenance area at each facility contains a storage area, consisting of a series of rail- or road-served drive-in or drive-through buildings, some of which are revetted; a repair or maintenance area with large, high-bay drive-through buildings; a vehicle storage area containing large, low-pitched gable-roofed buildings; and a rail distribution system. All of the facilities except Bobrovskiy also have a transshipment area containing two buildings identical in size and apparent operation. Each facility has at least one large, high-bay drive-through building probably used for repairing or refurbishing large vehicles.

At the Bobrovskiy, Glazov, and Surovatikha facilities, the storage and maintenance area appears to have a more definite pattern than at the other five facilities. At these three facilities, the storage and maintenance area consists of three parts: a vehicle storage area, a revetted building area, and an area containing buildings with a short projection or L-shaped entrance and served by a rail-trench system.

This rail-trench system is a transloading system unique to six of the missile support facilities. The system consists of a main rail spur which intersects a central rail trench at right angles, with a large bridge crane at the intersection capable of transferring heavy or bulky material. The crane transfers the material from the rail car to a dolly on a tracked turntable in the rail trench. From the trench the dolly rolls onto a narrow-gauge tracks leading into one of the rail-in storage buildings situated on each side of the rail trench.

At the other two facilities, Berdichev and Toropets, the rail line forms a loop, passing between the rows of rail-in buildings, permitting the unloading of material directly onto narrow-gauge rail dollies which go into the buildings.

The arrangement and revetting of some of the rail-in buildings suggest the presence of sensitive or potentially hazardous materials. At six of the facilities, two buildings at the end of the central rail trench are revetted, separately secured, and screened from ground observation.

The Bobrovskiy and Surovatikha facilities each have a number of storage buildings which differ from those at the other missile support facilities. At the Bobrovskiy facility, some rail-in buildings are surrounded by blast walls and resemble the storage buildings observed at solid fuel testing facilities. The Surovatikha facility has rail-served side-loading buildings also enclosed by blast walls.

Housing and Support Area

The housing and support area at each facility is adjacent to the storage and maintenance area and is a self-sufficient community with family housing, commissaries, troop quarters, schools, heatplants, motor pools, administration buildings, and recreational facilities. In each facility is a military area which contains buildings associated with facility administration, operations and control, and troop support.

Table 1. Data on Missile Support Facilities and

Missile Support Facility	First Observed Date & Status	Elevation	Military District
Balta	[]	600 ft	Odessa
Berdichev	[]	800 ft	Carpathian
Bobrovskiy	[]	900 ft	Urals
Glazov	[]	550 ft	Urals
Novaya Mezinovka	[]	600 ft	Belorussia
Surovatikha	[]	600 ft	Moscow
Tambov	[]	500 ft	Voronezh
Toropets	[]	600 ft	Moscow

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The housing and support area at each of the facilities has remained basically unchanged since it was first observed. However, an increase in troop strength since [] is indicated by the construction of a total of at least 19 apartment-type family quarters containing at least 1,048 family units at seven of the facilities. At Berdichev and Bobrovskiy the number of housing units has almost doubled. It is also observed that civilian houses at several facilities have been converted to military use. The number of personnel stationed at these facilities cannot be determined precisely because of the difficulty in differentiating between troop housing and workers housing; however, it is estimated that the number of family housing units in apartment-type buildings at the eight facilities is in excess of 4,500.

Balta Missile Support Facility

The Balta Missile Support Facility (Figure 2) is approximately 12 nm east-southeast of Balta, on the Kotovsk-Pervomaysk rail line. It is 20 nm southeast of the Balta MRBM Complex and 40 nm west of the Pervomaysk IIRBM Complex. Two SAM sites are approximately 14 nm from the Balta facility, one south and the other southwest of the facility. Other military installations in the area include the Balta and the Kotovsk Army Barracks, the Kotovsk SSM Training Facility, and the Kotovsk SAM Support Facility.

The Balta facility was first observed in [] when four large apartment-type buildings were under construction in the housing area. A rail-to-road transfer point, first observed under construction in [] appeared to be complete in []. Since [] several buildings have been constructed, including a high-bay drive-through probable maintenance and repair building in the storage area and an apartment-type building in the housing area. Immediately south of the housing area are two possible additional apartment-type buildings which were first observed under construction in [] and appeared to be complete by [].

Information on this facility is based primarily on photography of [] the best available at the time of this report.

The multiple-fenced storage and maintenance area contains 53 large buildings, of which 12 appear to be for vehicle storage and maintenance and 32 appear to be for the storage of possibly hazardous or sensitive materials. Two transshipment buildings, common to all the facilities except Bobrovskiy, are situated on the rail line just inside the western perimeter of the secured area. A gantry crane extending from one end of each transshipment building spans a rail spur which branches from the main rail line.

In the center of the storage and maintenance area are two rows of 28 rail-in storage buildings (item 9) served by a dual track in the central north-south rail trench, which intersects the main east-west rail line. A large bridge crane at the intersection is used to transfer cargo from the rail cars on the main rail line to probable dollies on tracked turntables in the rail trench. The rail-in storage buildings are approximately [] long by [] wide and are about 350 feet apart. Each has three narrow-gauge rail entrances approximately 15 feet wide. At the southern end of the rail trench are two revetted, separately secured buildings, similar to those observed at five other support facilities. Immediately east of the separately secured buildings is a large mobile gantry crane which spans a small three-track holding yard, which probably serves an adjacent vehicle storage and maintenance area containing 11 buildings. A four-track holding yard is observed in the northern part of the storage area. In the southwest part of the area is a large high-bay building, probably used for maintenance or refurbishing of missile support vehicles.

A considerable amount of MRBM and IIRBM support equipment and a large number of rail cars have been observed consistently at this facility. In [] at least 88 rail cars were observed. No major change in the amount or type of equipment has been observed.

The housing and support area, immediately west-southwest of the storage area, is a self-sufficient community of more than 75 buildings, including an estimated 300 apartment-type family units, barracks, a gymnasium, a community center, a fire station, a school, and a heatplant. There has been relatively little change in the housing and support area since [].

Data on Structures in the Balta Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Storage and Maintenance Area					
1	Stor bldg		11	Revetted stor bldg	
2	Vehicle stor bldg		12	Stor bldg	
3	Vehicle stor bldg		13	Vehicle stor bldg	
4	Vehicle stor bldg		14	Stor bldg (2)	
5	Vehicle stor bldg		15	Vehicle stor bldg	
6	Vehicle stor bldg (6)		16	Stor bldg	
7	Vehicle stor bldg (2)		17	Transloading bldg	
8	Revetted stor bldg (2)		18	Maint & assembly bldg	
9	Stor bldg (28)		19	Bridge crane	
10	Transloading bldg				

Item	Description	Dimensions (ft)
Housing and Support Area		
1	Vehicle stor bldg	
2	Stor bldg	
3	Rail- & road-through transloading bldg	
4	Warehouse	
5	Stor bldg	
6	Stor tank	
7	2 stor tanks	
8	Rail-in stor bldg	
9	Heatplant	
10	Stor bldg	
11	Maint bldg	
a		
b		
12	Admin bldg (3)	
13	Vehicle stor bldg	
14	Stor bldg	
15	Stor bldg	
16	Stor bldg	
17	Food stor bldg	
18	Prob messhall	
a		
b		
19	Fire station	
a		
b		
20	2-story bldg	
a		
b		
21	Bldg	
22	Bldg	
23	Recreation facility	
a		
b		
24	2-story apartment bldg (5)	
25	2-story bldg	
26	2-story bldg	
27	2-story bldg (2)	
28	School	
a		
b		
29	Bldg	
30	Stor bldg	
31	Stor bldg	
32	2-story apartment bldg (4)	
33	4-story apartment bldg (4)	
34	2-story apartment bldg	
35	3-story barracks	
36	2-story bldg	
37	Soccer field	

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Berdichev Missile Support Facility

The Berdichev Missile Support Facility (Figure 3) is 11.5 nm west-northwest of Berdichev and 1.5 nm south of the Berdichev-Shepetovka rail line. This facility is situated in a region dominated by military installations. In addition to four SAM sites within 25 nm, there are two ammunition depots, [] two SAM support facilities, and at least eight army barracks or headquarters facilities within 50 nm. Within 100 nm are eight MRBM launch complexes consisting of 22 permanent launch positions and one IRBM complex with three launch positions.

The Berdichev facility was first observed in []. In the housing area, four new two-story multifamily apartment buildings have been constructed since [] and an additional multistory barracks was observed completed in []. In the northern part of the storage area, a large low-pitched gable-roofed structure was constructed during []. A probable sewage disposal plant, started in [], was still under construction in [].

The heavily secured storage and maintenance area contains 105 large buildings, of which 74 appear to be for storage and 13 appear to be for vehicle repair or storage. Seven of the 74 storage buildings are revetted. There are two transshipment buildings, each with a gantry crane spanning one of the rail spurs which branch from the main line just inside the southwest corner of the facility.

At this facility, as at Toropets, the rail line forms a loop, so rail cars can be channeled directly into the central rail trench. At the northwest end of the rail trench are two separately secured, revetted buildings. Also at the northwest end of the rail trench, one rail line branches to form a loop, passing through a large T-shaped high-bay building (item 19) which is probably used in the preparation of materials for rail shipment. Southwest of the T-shaped building are two other high-bay buildings, one with a gantry crane at both entrances, which are probably used in the repair or refurbishing of large vehicles. A short rail spur inside the vertex of the wye at the southeast end of the rail trench apparently is a parking area for a railroad crane which is probably used to transfer materials from the rail trench to adjacent storage buildings.

A small rail-to-road transfer point with an overhead crane is in the southwest corner of the storage and maintenance area. In []

[] A road connects the transfer point with five revetted buildings along the south and southeast perimeter of the storage area.

A large amount of equipment for the SS-3, SS-4, and SS-5 missile systems has been observed in open storage since the facility was first observed on high-resolution photography in []. No significant change in the amount or type of equipment has been observed.

The housing and support area, just west of the storage and maintenance area, has more than 110 buildings, including barracks, family housing units, a gymnasium, a commissary, a community center, a fire station, schools including a nursery school, and a heatplant. Outdoor recreational facilities include a soccer field, basketball and volleyball courts, jumping pits, and a skeet range. The amount of family housing has almost doubled since [] and now consists of approximately 625 family apartment units.

Data on Structures in the Berdichev Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Storage and Maintenance Area					
1	Revetted stor bldg (2)	175 x 50	14	Support bldg	80 x 60
2	Revetted stor bldg (4)	160 x 55	15	Bunkered stor bldg (2)	85 x 65
3	Transloading bldg	100 x 90	16	Vehicle stor bldg (17)	140 x 45
4	Transloading bldg	140 x 90	17	Revetted stor bldg (2)	160 x 40
5	Stor bldg (2)	135 x 55	18	Vehicle stor bldg	215 x 60
6	Equipment stor bldg (10)	160 x 40	19	Rail-served maint & assembly bldg	120 x 45
a		40 x 35	a		120 x 30
7	Stor bldg	160 x 50	b		135 x 55
8	Equipment stor bldg (16)	160 x 40	c		110 x 45
9	Stor bldg (5)	240 x 60	20	Admin bldg	
10	Stor bldg (13)	160 x 55	21	Maint & assembly bldg	
11	Vehicle stor bldg (10)	165 x 60	a		240 x 70
12	Vehicle stor bldg	85 x 55	b		240 x 30
13	Support bldg	70 x 40	22	Maint & assembly bldg	200 x 90

Item	Description	Dimensions (ft)
Housing and Support Area		
1	Sentry dog kennels	--
2	Prob sewage plant	--
3	Vehicle maint & stor shed	160 x 70
4	Vehicle maint & stor shed	165 x 45
5	3-story barracks	130 x 50
6	Poss barracks	130 x 60
7	Poss recreation hall	140 x 55
8	Messhall	140 x 60
9	Warehouse	105 x 50
10	Fire station	65 x 40
11	Heatplant	
a		65 x 20
b		30 x 10
12	3-story admin bldg	115 x 45
13	Recreation facility	
a		85 x 55
b		75 x 60
14	2-story multifamily apartment bldg (7)	120 x 45
15	2-story multifamily apartment bldg (4)	135 x 45
16	2-story multifamily apartment bldg	145 x 55
17	2-story admin bldg	120 x 45
18	4-story apartment bldg	225 x 45
19	Temporary barracks-like structure (4)	145 x 40
20	Admin bldg	130 x 45
21	Heatplant	
a		80 x 30
b		45 x 20
22	Transformer bldg	--
23	Secondary school	
a		175 x 40
b		95 x 30
c		105 x 60
24	Kindergarten & nursery school	110 x 45
25	Prob store	165 x 45
26	4-story apartment bldg (5)	170 x 40
27	4-story apartment bldg (2)	180 x 45
28	Washing & stor shed (3)	145 x 20
29	Stor shed	100 x 35
30	Transformer bldg	15 x 10
31	Skeet range	--
32	Single-family dwellings (27)	35 x 15
33	Vehicle shed	140 x 35
34	Soccer field	--
35	Warehouse	260 x 25
36	Warehouse	125 x 30
37	Warehouse	100 x 45
38	Warehouse	75 x 20
39	Railroad maint shop	120 x 50
40	Road- & rail-through transloading bldg	120 x 60
41	Poss office bldg	55 x 40

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Bobrovskiy Missile Support Facility

The Bobrovskiy Missile Support Facility (Figure 4), one of four east of Moscow, is 16 nm southeast of Sverdlovsk on the main rail line between Sverdlovsk and Kamensk-Uralskiy. A number of military installations are within 20 nm of this facility, including four SAM sites, the Bazhenovo Ammunition Depot, the Sverdlovsk/Koltsovo Airfield, and four army installations.

The facility was first observed in [] when it was next observed on photography, it was still in an early stage of construction. In [] five large rail-in buildings, each [] were observed in an early stage of construction in the northern part of the storage area, and by [] they were almost completed. An additional large rail-in building in this area was completed in []. These large rail-in buildings (items 2 and 3) resemble those observed at solid fuel testing installations. Immediately west of the rail-in buildings are four revetted buildings, constructed during the same time period. Since [] six low-pitched gable-roofed buildings (items 17 and 18) and a rail-in building (item 19) have been observed under construction in the eastern part of the storage area.

Within the multiple-fenced storage and maintenance area, a considerable amount of ICBM support equipment has been observed recently. []

The ICBM equipment observed is probably for use at the three ICBM complexes situated within 100 nm of the Bobrovskiy facility. The only known operational complex for the solid-fueled ICBM is at Yoshkar-Ola, 500 nm to the west. The nearest IRBM launch complex is at Aktyubinsk, approximately 450 nm southwest of Bobrovskiy.

This installation differs in several respects from the other seven missile support facilities. The type of rail-in buildings in the northern part of the storage area and their arrangement are different from those at the other facilities. Also, this facility does not have the two transshipment buildings observed at the other facilities. In common with the other support facilities, however, are the heavily secured storage and maintenance area, the rail transfer system, and the housing and support area.

The storage and maintenance area contains 50 large buildings, of which 36 have L-shaped entrances such as those observed at the Glazov and Syrovatka facilities. The main rail line enters the southwest corner of the storage and maintenance area and separates into several spurs before branching into a five-track holding yard. A rail spur under construction will serve the new building also under construction in the eastern part of the area. Another rail spur extends northward to a four-track holding yard, and from the north end of this yard a spur extends eastward to serve a high-bay rail-in building. The spur which serves this rail-in building can also be used to channel rail cars directly into the central rail trench, a feature similar to that observed at the Novaya Merinovka installation. A large bridge crane at the intersection of the main rail line and the central rail trench also provides for transferring materials to the rail-in buildings along the trench. A large high-bay building at the end of the northwest rail spur appears to be for the repair or refurbishing of large vehicles. A similar rail-served building is observed in the south-central part of the storage and maintenance area.

A well-developed rail-to-road POL transfer point at the southeastern edge of the facility is similar to one observed at the Droyanaya ICBM Complex support facilities.

The equipment observed at the Bobrovskiy facility is associated primarily with the SS-7, SS-8, and SS-11 ICBM systems. The amount of equipment appears to have increased slightly since [] but the interpretability of the photography precludes its identification.

The housing and support area is the largest observed at any of the eight installations. Since [] a number of buildings have been constructed, including apartment-type buildings, two schools, and a large civic center. Six of the apartment-type buildings, started in [] have five stories each and contain a total of approximately 440 apartment-type quarters. There is a total of 14 four- and five-story modern apartments, four two-story apartments, and four small dormitory-type units within the housing area. The large apartment buildings are designed to house an estimated 800 families. The small dormitory-type units contain approximately 400 rooms with common kitchens. It is estimated that at least 1,200 families could be housed in the housing area.

Data on Structures in the Bobrovskiy Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	Vehicle shed	[]	55	Elementary school	[]
2	Vehicle shed		a		
3	Vehicle shed		b		
4	Vehicle shed		c		
5	Vehicle shed		56	Kindergarten & nursery school	
6	3 buried tanks		57	Kindergarten & nursery school	
7	Pumphouse		58	Gymnasium	
8	Water tower		59	2-story bldg	
9	Shed		60	Vehicle maint bldg	
10	Garage		61	Maint bldg	
11	Headquarters bldg	[]	62	4-story apartment bldg (2)	[]
12	Banker		63	3-story store	
13	Shed		a		
14	Shed		b		
15	Shed bldg		64	Washing & stor shed (3)	
16	Shed		65	3-story small-family housing unit	
17	Bldg		66	2-story bldg	
18	Bldg		67	2-story bldg	
19	Bldg		68	Messhall	
20	Stor bldg		69	Bldg	
21	Warehouse	[]	70	2-story bldg	[]
22	Shed		71	Vehicle shed	
23	Shed		72	2-story bldg	
24	Shed		73	Fire station	
25	Stor bldg		a		
26	Stor bldg		b		
27	Shed		74	Maint bldg	
28	Substation		a		
29	Messhall (2)		c		
30	5-story apartment bldg (2)		d		
31	3-story apartment bldg (4)	[]	e		[]
32	2-story small-family housing unit		75	2-story bldg	
33	Stor bldg		76	Sentry dog kennels	
34	Shed		77	Maint bldg under construction	
35	Stor bldg		78	Support bldg	
36	Stor bldg		79	Security bldg	
37	Stor bldg		80	Bldg	
38	Admin bldg		81	Ice rink	
39	Stor bldg		82	Support bldg	
40	Stor bldg		83	Preb casting bldg	
41	Stor bldg	[]	84	Support bldg	[]
42	Bldg		85	Warehouse	
43	Stor bldg		86	Stor bldg	
44	Stor bldg		87	Stor bldg	
45	2-story bldg		88	Warehouse	
46	3-story apartment bldg (3)		89	Batch plant	
47	2-story apartment bldg		a		
a			b		
b			90	Sawmill	
c			91	Stor bldg	
d		[]	92	Stor bldg	[]
48	2-story store		93	Heating plant	
49	4-story small-family apartment bldg (2)		a		
50	Civic center		b		
a			94	3 buried tanks	
b			95	Railroad maint shop	
c			a		
d			b		
51	Bldg		96	Pumphouse (2)	
52	Bldg		97	Warehouse	
53	Vehicle maint bldg		98	Support bldg	
54	Vehicle stor bldg				

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Glazov Missile Support Facility

The Glazov Missile Support Facility (Figure 5), 25 nm southeast of Glazov, is situated on the Trans-Siberian Railroad and is linked by a primary road to a major highway. Two SA-2 SAM sites are within 25 nm of the facility, and the Perm and Yurya ICBM Complexes are within 100 nm of the facility.

The facility was first observed in [] and it was operational at that time, although a few buildings and annexes were not completed until []. At that time, the foundation for a large building was observed in the southern part of the storage and maintenance area.

High-resolution photography has revealed the presence of ICBM missile components and ICBM missile stage transporters in open storage at this facility. None of the equipment can be identified specifically with the MRBM or IRBM systems; propellant transporters similar to those observed at the facility are used for both ICBM and MRBM/IRBM systems. The Glazov facility is conveniently located for handling ICBM equipment. It is situated on the Trans-Siberian Railroad, in the midst of the belt of ICBM complexes, and near the Perm, Yurya, and Yoshkar-Ola ICBM Complexes. The nearest IRBM complex is 500 nm and the nearest MRBM complex is 750 nm from the facility.

The Glazov facility has a more organized layout than the other missile support facilities. It consists of a storage and maintenance area and a housing and support area, each with several functional subdivisions.

The multiple-fenced storage and maintenance area includes a missile components storage area, a missile support equipment storage area, a maintenance and repair area, an area of construction, and two open storage areas. In the storage and maintenance area, the main rail spur branches into a six-track classification yard, which is served by two rail-through transshipment buildings. A rail wye extending from the classification yard intersects standard-gauge dual tracks which pass between the rail-in storage buildings, and a double overhead bridge crane is observed at the intersection. A narrow-gauge track extending at right angles from the dual tracks serves a number of maintenance and repair buildings west of the tracks.

The missile components storage area consists of 30 rail-in missile components storage buildings which form a ladder pattern on the two sides of the central dual tracks. Each rail-in building is served by three narrow-gauge tracks.

SS-6 and SS-7 components have been observed in a rail-served walled-in area between two of the storage buildings (items 7 and 8). SS-7 components have been observed in an area of rail-served missile-ready tents between two other storage buildings.

The missile support equipment storage area has 15 drive-in storage buildings, eight drive-through storage buildings, and a high-bay maintenance building, all served by a concrete apron system. The maintenance and repair area has several high-bay multi-section maintenance and repair buildings, including three rail-in buildings.

An area of construction in the southern part of the storage and maintenance area contains a large, multilevel, rail-through probable repair and maintenance building in a late stage of construction (item 18), which is similar to a building (item 1, Figure 6) at the Novaya Mezinovka facility. The area of construction also contains a four-track storage yard and a foundation for a large building. The foundation has been observed for three years and construction has been dormant for two years. Lack of construction activity possibly is due to a delayed need for their functions. Most of the southern section is undeveloped, although it is within the elaborate security perimeter. It is possible that this section was intended to accommodate future systems, and the present slow construction activity may be the beginning of an expansion throughout this area.

There are two open storage areas. One is south of the missile support equipment storage area and is used for the storage of SS-6 booster components. The other is near the classification yard and is for the storage of SS-7 stage transporters.

The housing and support area is divided into a housing area, a military barracks and administration area, a motor pool and maintenance area, an underground POI, storage area and refueling point, a heatplant and utilities area, an additional heatplant, a water pumping and storage area, and a concrete batching and prefabrication area. An estimated 885 family-type apartment units are in the housing area.

Data on Structures in the Glazov Missile Support Facility

Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	3-story admin bldg	
2	Vehicle maint bldg	
3	Vehicle stor bldg (4)	
4	Maint & assembly bldg	
a		
b		
c		
5	Maint & assembly bldg (3)	
a		
b		
c		
6	Maint & assembly bldg	
a		
b		
c		
7	Stor bldg (20)	
a		
b		
8	Stor bldg	
9	Stor bldg (10)	
a		
b		
10	Bldg (3)	
11	Transloading bldg	
12	Transloading bldg	
13	Transloading bldg	
14	Bldg	
15	Maint & assembly bldg	
a		
b		
c		
16	Vehicle stor bldg (8)	
17	Vehicle stor bldg (15)	
18	Maint bldg	
a		
b		
19	Stor bldg (3)	
20	Bridge crane	
21	Security bldg (3)	

Data on Structures in the Glazov Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and support area					
1	Substation		37	Prob messhall	
2	Sawmill & lumber yard		38	3-story bldg	
3	4-story poss technical school		39	3-story bldg	
4	Security bldg		a		
5	Washing & stor shed (4)		b		
6	4-story apartments bldg (10)		40	3-story prob barracks	
7	Prob store (2)		41	Revetted stor bldg	
8	4-story bldg		42	Stor bldg	
9	Small family apartment		43	Vehicle shed	
10	3-story apartment bldg (2)		44	Vehicle maint bldg	
11	Athletic field		45	Vehicle shed	
12	Heatplant		a		
a			b		
b			c		
13	3 buried stor tanks		46	Fire station	
14	Pumphouse		a		
15	Washing & stor shed (2)		b		
16	3-story apartment bldg		47	3-story bldg	
17	3-story apartment bldg (17)		48	Drive-through bldg (3)	
18	Washing & stor bldg		49	Stor bldg	
19	Kindergarten & nursery school		50	Stor bldg (2)	
20			51	Revetted stor bldg	
a			52	3 buried tanks	
b			53	Prob pumphouse	
21	Kindergarten & nursery school		54	Pump stand	
a			55	4 buried tanks	
b			56	Bldg	
22	(2)		57	Warehouse	
23	Prob movie theater		58	Vehicle shed	
a			a		
b			b		
24	Prob recreation facility		59	Heatplant	
a			a		
b			b		
25	Soccer field		60	Warehouse	
26	Field house		61	Batch plant	
a			62	Security dog kennels	
b			63	Pump station	
27	Poss elementary school		a		
28	Support bldg		b		
29	Recreation area		64	3 buried water tanks	
30	3-story prob admin bldg		65	Railroad maint bldg	
a			a		
b			b		
31	3-story prob barracks		66	Security bldg	
32	Prob barracks		67	Security bldg	
33	Prob recreation hall				
34	Bldg				
35	3-story prob barracks				
36	Food stor bldg				

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Novaya Mezimovka Missile Support Facility

The Novaya Mezimovka Missile Support Facility (Figure 6) is in the midst of the belt of MRBM and IRBM complexes in the western USSR and is on the Minsk-Baronovichi rail line. It is 43 nm southwest of Minsk and 50 nm northeast of Baronovichi. Ten MRBM complexes consisting of 23 permanent launch sites and one IRBM complex with three sites are within 100 nm of the facility. Two SAM sites are within 30 nm of the facility. A SAM support facility, 1 nm north of the Novaya Mezimovka facility, appears to utilize a fenced housing and administration site at the north edge of the missile support facility housing area.

The Novaya Mezimovka facility was first observed in [] and the rail-to-road transfer point was first identified in []. The facility has remained relatively unchanged since [] aside from the completion of two large apartment-type buildings and a rail repair shop.

A large amount of MRBM and IRBM support equipment has been observed consistently at the facility, and the movement of a number of vehicles has been observed on several occasions. In [] at least 200 vehicles, including probable warhead vans, support vans, and probable generators, were observed at the rail-to-road transfer point. These vehicles were previously in the storage and maintenance area and their removal from that area began in []. The vehicles were no longer observed at the facility. In [] 90 SS-3 transporters were observed for the first time in one of the open storage areas.

The storage and maintenance area, secured by multiple fencing and patrols, contains at least 75 buildings, of which 45 are for equipment storage. At least 12 of the buildings appear to be for vehicle storage, three for vehicle repair or refurbishing, and two are the transshipment buildings common to six other missile support facilities. Ten of the storage buildings at the southern end of the rail trench, are of similar size and have the same L-shaped entrances as those observed at the Bobrovskiy, Glazov, and Suravitskaya facilities.

The rail system employs a large bridge crane for transferring material from the incoming rail spur to the rail trench. In addition, a rail spur branches from the four-track holding yard along the south perimeter of the storage area and joins the track in the rail trench, permitting rail cars to go directly into the rail trench.

A rail-to-road transfer point with two end-loading platforms and a gantry crane is at the eastern end of the holding yard. A rail spur, branching from the main rail line as it enters the northwest perimeter of the storage area, serves four widely spaced, side-loading, revetted buildings along the western perimeter. A parallel spur serves three similar buildings immediately east of these revetted buildings.

A number of rail cars tapered at one end are observed throughout the facility. Two rail cars with extensions at both ends, each carrying a tapered object 60 feet long and [] in diameter, were observed along the eastern edge of the storage and maintenance []

The storage area contains two large high-bay buildings (items 3 and 6) for vehicle repair and refurbishing. One of these buildings is at the north end of the rail trench and is served by three narrow-gauge tracks. The narrow-gauge tracks at the eastern entrance to the building form a loop and then enter a nearby two-story storage building. A short rail spur from the main rail line serves a small side-loading dock adjoining one of the large high-bay buildings (item 6). To the east is the second high-bay building (item 3), which has gantry cranes at the front and rear entrances. A third high-bay building (item 9), observed immediately east of the bridge crane in the center of the storage area, is a

Data on Structures in the Novaya Mezimovka Missile Support Facility

Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Rail-served transloading bldg	
a		
b		
2	Vehicle stor bldg (5)	
3	Mainst & assembly bldg	
a		
b		
c		
4	Vehicle stor bldg (3)	
5	Warehouse	
6	Mainst & assembly bldg	
a		
b		
7	Stor bldg (30)	
8	Stor bldg (8)	
9	Stor bldg	
a		
b		
10	Revetted stor bldg (3)	
11	Stor bldg (10)	
a	Entrance	
12	Transloading bldg	
13	Stor bldg	
14	Stor bldg	
15	Transloading bldg	
16	Stor shed	
17	Vehicle stor bldg (3)	
18	Warehouse (2)	
19	Train shed	
20	Warehouse (3)	
21	Revetted stor bldg (4)	

Data on Structures in the Novaya Mezimovka Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	Washing & stor shed		32	Railroad maint shop	
2	Washing & stor shed		a		
3	4-story apartment bldg (11)		b		
4	Washing & stor shed		33	Warehouse	
5	Store		34	Poss messhall	
6	Field house		a		
a			b		
b			35	Office bldg	
c	Swimming pool		36	Stor bldg	
7	Elementary school		37	Bldg	
a			38	Bldg (5)	
b	(9)		39	Duplex apartment bldg	
8	Kindergarten & nursery school		40	Single-family housing unit (7)	
9	Stor bldg		41	Duplex apartment bldg (8)	
10	Sentry dog kennels		42	3-story apartment bldg (9)	
11	Ice rink		43	3-story apartment bldg	
12	Stor bldg		a		
13	Water pump house		b		
14	Bldg		44	2-story apartment bldg (4)	
a			45	2-story prob barracks	
b	(2)		46	4-story admin bldg	
15	Bldg		47	Sawmill	
16	Bldg		48	Heatplant	
a			a		
b			b		
17	Soccer field		49	Bldg	
18	3-story multifamily apartment bldg (3)		50	Stor bldg	
19	3-story dormitory bldg (5)		51	Bldg	
20	Recreation bldg		52	Bldg	
21	Recreation bldg		53	Stor shed	
22	Recreation facility		54	Stor bldg	
a			55	Stor shed	
b			a		
23	Recreation bldg		b		
24	Warehouse		56	Road- & rail-through transloading bldg	
25	Bldg		57	Vehicle stor & maint bldg	
26	Bldg		a		
27	Bldg		b		
28	Stor bldg		58	Maint bldg	
29	Fire station		a		
a			b		
b			c		
30	2-story bldg		59	Vehicle stor & maint bldg	
a			60	Railroad maint shop	
b	(3)		a		
31	Warehouse		b		

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rail-through building probably used in the preparation of special materials either entering or leaving the storage buildings along the rail trench.

25X1

The housing and support area contains at least 80 buildings. With the exception of the construction of two 32-unit apartment buildings, no major changes have been observed in the area since [redacted]. An estimated 700 apartment-type family units are present in this area.

25X1



Surovatikha Missile Support Facility

The Surovatikha Missile Support Facility (Figure 7), on the Gorkiy-Azamas rail line, is 46 nm south of Gorkiy and 18 nm north of Azamas. A SAM support facility is 1.2 nm north of the Surovatikha facility, and five SAM sites are within 20 nm of the missile support facility.

25X1

The Surovatikha facility was first observed in [redacted] and in [redacted] a new rail-to-road transfer point was observed on the western edge of the facility. In [redacted] six large new buildings were identified in the storage and maintenance area. In the housing and support area, 12 buildings, including a large vehicle repair shed, a probable school, and a large apartment-type building with approximately 64 units, have been completed since [redacted]. A total of 488 family housing units have been identified in the housing area.

25X1

Support equipment associated with the SS-4, SS-5, SS-7, and SS-9 missile systems has been identified at this facility on high-resolution photography since [redacted]. It is assumed that the SS-7 and SS-9 equipment furnishes support to the four ICBM complexes within 300 nm of the facility.

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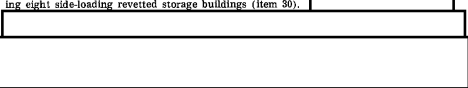
The secured storage and maintenance area, which contains at least 90 buildings, has three functional areas: a vehicle storage area with 36 buildings, a rail-served area with eight side-loading revetted buildings, and an area of 31 buildings with L-shaped entrances (item 4) served by the rail-trench system. The buildings with L-shaped entrances are similar to those observed at the Bobrovskiy and Glazov facilities. There are two high-bay buildings, one near the bridge crane at the intersection of the rail-trench system and the other in the vehicle storage area.

Two transshipment buildings are situated on the main rail spur just after it enters the secured storage area. The two transshipment buildings at this facility differ slightly from those observed at six of the support facilities: they do not have external gantry cranes spanning the rail spur; instead, each building extends over one of the rail spurs and it is assumed that a gantry crane is in each building to perform the loading or unloading function.

25X1

The transloading system at this facility consists of a rail-trench system, with a bridge crane for transferring materials. The facility also has a candelabra rail arrangement serving eight side-loading revetted storage buildings (Item 30).

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Data on Structures in the Surovatikha Missile Support Facility		
Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Substation	[redacted]
2	Vehicle stor bldg	
3	Vehicle stor bldg	
4	Stor bldg (26)	
a		
b		
5	Transloading bldg	
6	Vehicle stor bldg	
7	Maint & assembly bldg	
a		
b	(2)	
8	Bridge crane	[redacted]
9	Stor bldg (4)	
10	Stor bldg (2)	
11	Vehicle stor bldg (3)	
12	Transloading bldg	
13	Vehicle stor bldg (2)	
14	Vehicle stor bldg (9)	
15	Vehicle stor bldg (12)	
16	Stor bldg (5)	
17	Warehouse	
18	Revetted stor bldg	[redacted]
19	Maint & assembly bldg	
a		
b	(3)	
c		
20	Vehicle stor bldg (15)	
21	Revetted stor bldg	
22	Revetted stor bldg	
23	Warehouse	
24	Stor bldg	
25	Road- & rail-through transloading bldg	[redacted]
26	Office bldg	
27	Warehouse	
28	Stor bldg	
29	Vehicle stor bldg	
30	Revetted stor bldg (8)	
31	Special operations shelter	
a		
b		
c		

Data on Structures in the Surovatikha Missile Support Facility		
Item	Description	Dimensions (ft)
Housing and Support Area		
1	2-story bldg	[redacted]
2	Railroad maint bldg	
3	Shed	
4	2-story bldg	
5	Rail shed	
6	Loading platform	
a		
b		
7	Vehicle maint shed	
8	Vehicle shed	
9	2 buried stor tanks	[redacted]
10	Pumphouse	
11	Stor bldg	
a		
b	(2)	
12	Heatplant	
a		
b		
13		
14		
15	Vehicle maint bldg	[redacted]
16	Shed	
17	Vehicle maint bldg	
18	Senior dog kennels	
19	Stor bldg	
20	Shed	
21	Shed	
22	Food stor bldg	
23	Water tower	
24	Bldg	
a		[redacted]
b		
25	Recreation Facility	
a		
b		
c		
26	Temporary barracks-type bldg	
27	Temporary barracks-type bldg	
28	Temporary barracks-type bldg	
29	Temporary barracks-type bldg	

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Tambov Missile Support Facility

The Tambov Missile Support Facility (Figure 8) is 15 nm south of Tambov and 1 nm west of the Tambov-Saratov rail line. There are four SAM sites within 15 nm of the facility and a SAM support facility is 2 nm south of the Tambov facility.

The missile support facility is approximately 210 nm south-southeast of Moscow. Although it is approximately 400 nm east of the belt of MRBM and IRBM complexes in the western USSR, two missiles and a considerable amount of MRBM and IRBM support equipment have been identified on high-resolution photography since [redacted]. It is possible that this facility is a depot and repair center for equipment for the three IRBM launch complexes with seven launch sites and the three MRBM launch complexes with seven launch sites in the Caucasus Mountains and the south-central USSR.

The multiple-fenced storage area contains at least 68 large buildings, of which 56 are probably storage buildings. Of these, ten are probably for vehicle storage and two are probably for missile storage or assembly. Two large high-bay buildings appear to be for the maintenance and repair of large vehicles. Two transshipment buildings, each with a gantry crane extending over one rail spur, are situated on the main rail spur just inside the storage area. At the north end of the rail spur is a separately secured area containing three buildings, two of which are surrounded by blast walls.

A number of changes have occurred in the storage and maintenance area since [redacted]. Six large low-pitched gable-roofed buildings have been constructed at the southwest end of the rail trench. A new rail spur entering the south perimeter of the storage area was observed in [redacted].

The main rail line enters the southeast corner of the storage area and separates into four tracks, two of which are spanned by gantry cranes extending from the two transshipment buildings. A spur branches from the main line just inside the storage area and extends northeast to serve three widely separated, side-loading, revetted storage buildings and an open storage area. The main rail spur intersects a two-track rail trench, and a bridge crane is at the intersection to transfer material destined for the rail-in storage buildings along the rail trench.

[redacted] A considerable amount of support equipment for the SS-3, SS-4, and SS-5 systems has been observed at this facility on high-resolution photography [redacted]. At least 40 SS-2 missile transporters observed in [redacted] were not present in [redacted]. Between [redacted] and [redacted] at least 40 SS-3, SS-4, and SS-5 missile transporters were removed from the open storage areas.

Changes in the housing and support area since [redacted] indicate an increase in personnel at the facility: three three-story apartment buildings have been completed, and an additional [redacted]. The completion of this structure will bring the number of family housing units present to approximately 400. Between [redacted] seven POL tanks were installed in the vicinity of the heatplant and a new wing and stack were added to the heatplant.

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Data on Structures in the Tambov Missile Support Facility		
Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Stor bldg (6)	[redacted]
2	Stor bldg (2)	
3	Stor bldg (5)	
4	Stor bldg (6)	
5	Maint & assembly bldg	
a		
b		
c		
6	Stor bldg	
7	Bldg	
8	Stor bldg (14)	[redacted]
9	Shed over rail trench	
10	Vehicle stor bldg	
11	Vehicle stor bldg	
12	Bldg	
13	Vehicle stor bldg (3)	
14	Vehicle stor bldg (5)	
15	Drive-through bldg	
16	Bldg	
17	Stor bldg (2)	
18	Bldg	
a		[redacted]
b		
19	Prob office bldg	
20	Transloading bldg	
21	Transloading bldg	
22	Vehicle stor bldg (4)	
23	Maint & assembly bldg	
a		
b		
c		
24	Revetted stor bldg (3)	[redacted]
25	Shed	
26	Rail-served bldg	
a		
b		
27	Road- and rail-through transloading bldg	
28	Bridge crane	

Data on Structures in the Tambov Missile Support Facility					
Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	3-story apartment bldg	[redacted]	38	Bldg	[redacted]
2	3-story apartment bldg (2)		39	Warehouse	
3	Washing & stor shed		40	Warehouse	
4	Washing & stor shed		41	Bldg	
5	Washing & stor shed		42	Heatplant	
6	Washing & stor shed (4)		a		
7	Soccer field		b		
8	Washing & stor shed		43	3 stor tanks	
9	3-story apartment bldg (4)		44	Security bldg	
10	3-story apartment bldg (4)		45	2-story barracks	
11	Bldg	[redacted]	46	Messhall	[redacted]
12	Pumphouse		a		
13	Sentry dog kennels		b		
14	Vehicle stor shed		47	Apartment bldg	
15	Field house		48	Recreation bldg	
16	Maint bldg		a		
b			b		
17	Bldg		49	Bldg	
18	Vehicle stor shed		50	Fire station	
19	Warehouse		a		
20	Vehicle stor shed	[redacted]	b		
21	Warehouse		c		
22	Prob kdn		51	Stor shed	[redacted]
23	Sawmill		52	Stor shed	
24	Bldg		53	Stor shed	
a			54	4 buried tanks	
b			55	Bldg	
25	2-story barracks		56	2-story barracks	
26	(2)		57	Temporary barracks (4)	
27	Bldg		58	Bldg	
28	Bldg		59	Bldg	
29	Bldg		60	Bldg (2)	
30	Bldg	[redacted]	61	Amphitheater	[redacted]
31	2-story apartment bldg (5)		62	Temporary barracks (3)	
a			63	Bldg	
b			64	Shed	
32	Duplex apartment bldg (8)		65	Bldg	
33	Railroad maint shop		a		
34	2-story bldg		b		
35	Bldg		66	Shed	
36	Post admin bldg		67	Shed	
37	Bldg		68	Shed	
			69	Elementary school	
			a		[redacted]
			b		
			70	Batch plant	

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Tambov Missile Support Facility

The Tambov Missile Support Facility (Figure 8) is 15 nm south of Tambov and 1 nm west of the Tambov-Saratov rail line. There are four SAM sites within 15 nm of the facility and a SAM support facility is 2 nm south of the Tambov facility.

The missile support facility is approximately 210 nm south-southeast of Moscow. Although it is approximately 400 nm east of the belt of MRBM and IRBM complexes in the western USSR, two missiles and a considerable amount of MRBM and IRBM support equipment have been identified on high-resolution photography since [redacted] it is possible that this facility is a depot and repair center for equipment for the three IRBM launch complexes with seven launch sites and the three MRBM launch complexes with seven launch sites in the Caucasus Mountains and the south-central USSR.

The multiple-fenced storage area contains at least 88 large buildings, of which 56 are probably storage buildings. Of these, ten are probably for vehicle storage and two are probably for missile storage or assembly. Two large high-bay buildings appear to be for the maintenance and repair of large vehicles. Two transshipment buildings, each with a gantry crane extending over one rail spur, are situated on the main rail spur just inside the storage area. At the north end of the rail spur is a separately secured area containing three buildings, two of which are surrounded by blast walls.

A number of changes have occurred in the storage and maintenance area since [redacted] six large low-pitched gable-roofed buildings have been constructed at the southwest end of the rail trench. A new rail spur entering the south perimeter of the storage area was observed in [redacted]

The main rail line enters the southeast corner of the storage area and separates into four tracks, two of which are spanned by gantry cranes extending from the two transshipment buildings. A spur branches from the main line just inside the storage area and extends northeast to serve three widely separated, side-loading, revetted storage buildings and an open storage area. The main rail spur intersects a two-track rail trench, and a bridge crane is at the intersection to transfer material destined for the rail-in storage buildings along the rail trench.

A considerable amount of support equipment for the SS-3, SS-4, and SS-5 systems has been observed at this facility on high-resolution photography since [redacted] At least 60 SS-2 missile transporters observed in [redacted] were not present in [redacted] Between [redacted]

At least 40 SS-3, SS-4, and SS-5 missile transporters were removed from the open storage areas.

Changes in the housing and support area since [redacted] indicate an increase in personnel at the facility. [redacted]

The completion of this structure will bring the number of family housing units present to approximately 400. Between [redacted] seven POL tanks were installed in the vicinity of the heatplant and a new wing and stack were added to the heatplant.

Data on Structures in the Tambov Missile Support Facility

Item	Description	Dimensions (ft)
Storage and Maintenance Area		
1	Stor bldg (6)	
2	Stor bldg (2)	
3	Stor bldg (5)	
4	Stor bldg (6)	
5	Maint & assembly bldg	
a		
b		
c		
6	Stor bldg	
7	Bldg	
8	Stor bldg (14)	
9	Shed over rail trench	
10	Vehicle stor bldg	
11	Vehicle stor bldg	
12	Bldg	
13	Vehicle stor bldg (3)	
14	Vehicle stor bldg (3)	
15	Drive-through bldg	
16	Bldg	
17	Stor bldg (2)	
18	Bldg	
a		
b		
19	Prob office bldg	
20	Transloading bldg	
21	Transloading bldg	
22	Vehicle stor bldg (4)	
23	Maint & assembly bldg	
a		
b		
c		
24	Revetted stor bldg (3)	
25	Shed	
26	Rail-served bldg	
a		
b		
27	Road- and rail-through transloading bldg	
28	Bridge crane	

Data on Structures in the Tambov Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	1-story apartment bldg		38	Bldg	
2	1-story apartment bldg (2)		39	Warehouse	
3	Washing & stor shed		40	Warehouse	
4	Washing & stor shed		41	Bldg	
5	Washing & stor shed		42	Heatplant	
6	Washing & stor shed (4)		a		
7	Soccer field		b		
8	Washing & stor shed		43	3 stor tanks	
9	3-story apartment bldg (4)		44	Security bldg	
10	2-story apartment bldg (4)		45	2-story barracks	
11	Bldg		46	Messhall	
12	Pumphouse		a		
13	entry dog kennels		b		
14	Vehicle stor shed		47	Apartment bldg	
15	Field house		48	Recreation bldg	
16	Main bldg		a		
a			b		
b			49	Bldg	
c			50	Fire station	
17	Bldg		a		
18	Vehicle stor shed		b		
19	Warehouse		c		
20	Vehicle stor shed		51	Stor shed	
21	Warehouse		52	Stor shed	
22	Prob kila		53	Stor shed	
23	Sawmill		54	4 buried tanks	
24	Bldg		55	Bldg	
a			56	2-story barracks	
b	(2)		57	Temporary barracks (4)	
c	Bldg		58	Bldg	
25	Bldg		59	Bldg	
26	Stor		60	Bldg (2)	
27	Bldg		61	Amphitheater	
28	Bldg		62	Temporary barracks (3)	
29	Bldg		63	Bldg	
30	Bldg		64	Shed	
31	2-story apartment bldg (5)		65	Bldg	
a			a		
b			b		
32	Duplex apartment bldg (8)		66	Shed	
33	Railroad maint shop		67	Shed	
34	2-story bldg		68	Shed	
35	Bldg		69	Elementary school	
36	Post admin bldg		a		
37	Bldg		b		
			70	Batch plant	

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Toropets Missile Support Facility

The Toropets Missile Support Facility (Figure 9) is 8.2 nm south of Toropets, on the Toropets-Staraya Toropa rail line and highway. Military installations near the facility include a SAM support facility, 2.5 nm to the north; the Toropets Ammunition Depot, 9 nm to the north; and four SAM sites within 15 nm of the facility.

Between [redacted] and [redacted] several new buildings were observed in the storage area. The presence of MRBM, IRBM, or ICBM support equipment has not been confirmed at this facility and there appears to be less activity than at the other facilities. However, the layout, type of buildings, and apparent mode of operation at Toropets indicate that it probably performs the same type of function as the other seven facilities. In [redacted] canvas-covered [redacted] tapered objects were observed at the front and rear entrances to a large high-bay building (item 18) in the storage and maintenance area. In addition, in [redacted] seven unidentified [redacted] long linear tapered objects were seen on the main loading dock, north of one of the transshipment buildings (item 21).

The multiple-fenced storage and maintenance area contains 82 large buildings, of which 42 appear to be for storage and 20 appear to be for vehicle maintenance and storage. Ten of the storage buildings (item 24) have narrow-gauge tracks extending approximately 30 feet from the building entrances. A narrow-gauge rail line, serving a high-bay building in the northeast part of the storage area, joins the main rail line which passes between the rail-in storage buildings and terminates just short of the loading dock at the northwest end of the trench.

The rail system at this facility is similar to that at Berdichev. The main rail line forms a loop, so that rail cars can go directly into the rail trench and no bridge crane is needed. At one end of the rail trench are two separately secured, revetted storage buildings, such as are observed at five other support facilities.

Two transshipment buildings, each with a gantry crane spanning the rail spur, are in the eastern part of the storage area. A rail spur branching from the main line in the western corner of the storage area serves three widely spaced, side-loading revetted storage buildings. A considerable number of rail cars have been observed consistently on this siding. At right angles to the main rail line are eight lengths of standard-gauge track

In the housing and support area, some individual housing units were probably taken over from the local civilian population for military use when the facility was in an early stage of construction. An estimated 158 apartment-type family units have been identified at the facility. Only minor changes have been observed in the housing and support area since [redacted]

Data on Structures in the Toropets Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Storage and Maintenance Area					
1	Security bldg		15	Warehouse	
2	Revetted bldg		a		
3	Revetted bldg		b		
4	Revetted stor bldg (2)		c		
5	Stor bldg (27)		16	Vehicle stor bldg (2)	
6	Bldg		17	Vehicle maint bldg	
7	Maint & assembly bldg		18	Maint & assembly bldg	
8	Stor bldg		a		
a			b		
b			19	Warehouse	
9	Vehicle stor bldg		20	Warehouse	
10	Vehicle stor bldg (8)		21	Transloading bldg	
11	Vehicle stor bldg (2)		22	Warehouse (10)	
12	Stor bldg		23	Transloading bldg	
a			24	Vehicle stor bldg (10)	
b			25	Security bldg	
(4)			26	Stor bldg	
13	Stor bldg		27	Bldg	
14	Stor bldg		28	Revetted stor bldg (3)	
Housing and Support Area					
1	Railroad shed		27	Water tower	
2	Bldg		28	Bldg	
3	Heatplant		29	Bldg	
a			30	Messhall	
b			a		
c			b		
4	Bldg		31	Vehicle stor bldg	
5	Stor bldg		32	Poss 2-story barracks	
6	Bldg		33	Sheds (2)	
7	Admin bldg		34	Bldg	
8	Sentry dog kennels		35	Recreation facility	
9	Bldg		a		
10	Prob security bldg		b		
11	Fire station			36	
a		37		Bldg	
b		38		Poss kindergarten & nursery school	
(2)		nursery school			
12	Warehouse	39		Poss store	
13	Poss kiln	40	School		
14	Sawmill	a			
15	Warehouse	b			
16	Shed	c			
17	Bldg	d			
18	Bldg	41	Bldg		
19	Bldg	42	2-story apartment bldg		
20	Bldg	43	Bldg		
21	Maint bldg	44	2-story apartment bldg (5)		
22	Admin bldg	45	2-story bldg		
23	Maint bldg	46	Stor shed		
a			47	Stor shed	
b			48	2-story apartment bldg	
24	Temporary barracks		49	Soccer field	
25	2-story admin bldg		50	Security shed	
26	Bldg				

Data on Structures in the Toropets Missile Support Facility

Item	Description	Dimensions (ft)	Item	Description	Dimensions (ft)
Housing and Support Area					
1	Railroad shed	[redacted]	27	Water tower	[redacted]
2	Bldg		28	Bldg	
3	Heatplant		29	Bldg	
a			30	Messhall	
b			a		
c			b		
4	Bldg		31	Vehicle stor bldg	
5	Stor bldg		32	Poss 2-story barracks	
6	Bldg		33	Sheds (2)	
7	Admin bldg		34	Bldg	
8	Sentry dog kennels		35	Recreation facility	
9	Bldg		a		
10	Prob security bldg		b		
11	Fire station		36	Bldg	
a		[redacted]	37	Bldg	[redacted]
b			38	Poss kindergarten & nursery school	
(2)			nursery school		
12	Warehouse		39	Poss store	
13	Poss kiln		40	School	
14	Sawmill		a		
15	Warehouse		b		
16	Shed		c		
17	Bldg		d		
18	Bldg		41	Bldg	
19	Bldg		42	2-story apartment bldg	
20	Bldg		43	Bldg	
21	Maint bldg		44	2-story apartment bldg (5)	
22	Admin bldg		45	2-story bldg	
23	Maint bldg		46	Stor shed	
a		[redacted]	47	Stor shed	
b			48	2-story apartment bldg	
24	Temporary barracks		49	Soccer field	
25	2-story admin bldg		50	Security shed	
26	Bldg				

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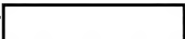


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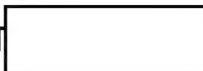
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SUBJECT: Balta MRBM, Berdichev IRBM, Bobrovskiy ICBM/IRBM/MRBM,
Glazov ICBM/IRBM/MRBM, Novaya Mezinovka IRBM, Surovatikha
ICBM/IRBM/MRBM, and Tambov IRBM Rear Depots and Toropets
Missile Support Facility (USSR)
Basic Imagery Interpretation Report
Dated August 1969

Please substitute the attached pages 15 and 16 for the original
pages 15 and 16 disseminated with the referenced report. Certain item
numbers were inadvertently omitted from Figure 7.

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